

Hybrid Cloud Container Services

Flexible choice of platforms with managed container services—on both, a multi-cloud or hybrid cloud environment.

Provisioning and operation of a kubernetes cluster together with self-service portal and registry, on an infrastructure of your choice.

Using containers to build a stable, secure, flexible, and scalable infrastructure to support your ongoing digital transformation

Moving workloads from traditional on-premise systems to the cloud is a big decision for most enterprises. While some companies still see challenges in the cloudification particularly for mission-critical applications and use a hybrid cloud approach, others already rely on a multi-cloud approach— for both, containers can help manage data and applications.

A container relies on virtual isolation to deploy and run applications that access a shared operating system kernel without the need for virtual machines.

They have increasingly become part of the hybrid toolkit because they yield many of the same benefits as cloud, while providing deployment flexibility. The key benefits for you are:

- **Improved portability:** By building out services and data stores within containers, companies have the ability to create smaller, better-performing workloads for their applications. Ultimately, companies can more easily shift them all – or some of them at a time as part of their migration strategy – to the Public or Private cloud.
- **Improved workload automation:** Container orchestration platforms, such as Kubernetes, help automate the deployment of containerized workloads across the entire hybrid architecture. This allows organizations to easily deploy and run their containers on clusters of servers at different locations and in a synchronized manner.

- **Improved resilience:** Through container clustering, i.e. combining multiple containers as a team of microservices, admins can more easily scale container systems while at the same time increasing their resilience. With this, individual services can be updated as necessary without having to take down the whole application.
- **Ready for cloud native development:** For most organizations, the move to a Public or Private cloud environment doesn't happen overnight, but eventually requires companies to quickly pivot their approach and deploy their application seamlessly without interruption on a cloud infrastructure. Writing, testing, and deploying applications inside containers, the environment stays the same regardless of where the application resides and becomes a perfect cloud native-ready solution.
- **Enabling multi-cloud strategies:** Portability is also beneficial if customers want to test applications across multiple operating systems to see if that makes a difference to any of the results. Should an application crash during testing, it only affects the one specific container versus the entire OS.

Container services: Free choice of platform as the “Champions Challenge”

The best and most popular container frameworks are based on Docker (container runtime) and Kubernetes (container orchestration tools).

T-Systems offers this state of art solution combined with the Rancher multi Kubernetes cluster management tool. The container management for hybrid cloud infrastructures offers your company the provisioning and operation of a Kubernetes cluster together with self-service portal and registry, on an infrastructure of your choice.

You then have the option to deploy, test und monitor his own micro service applications.

Your benefits of the T-Systems solution:

- provides a quick start in the „World“ of container and micro services while building a container management infrastructure for development and production.
- makes the selection out of many best of breed tools obsolete as micro services can be deployed on various infrastructures.

T-System’s solution for mode 2 IT: Hybrid Cloud Container Services

Hybrid Cloud Container Services (HCCS) contains an optimized application and infrastructure set which can run and operate containerized applications. Your company will bring the application containers and just need to run it. HCCS is running on virtual servers of T-Systems’ private clouds (FCI, DSI L/R, DCS 3.x, Azure Stack), Public clouds (OTC, vCloud, Azure, AWS) solutions and bare metal servers too. The service’s components are installed fully

automatically with Terraform, Ansible and vRA scripts. Therefore, the delivery is fast and standard on the goal platform without any intervention.

The Hybrid Cloud Container Service provides a solution for you to easily manage, monitor and scale container applications in a team. T-Systems ensures the secure operation of the Kubernetes cluster in the private cloud of your company.

Services provided are:

- Self-Service Portal, GUI
- Kubernetes Cluster, Provisioning, scaling and managing of container applications
- Registry, Standard applications are available in proved quality as an Docker Image
- Monitoring of the applications, started by your company

Solution Packages for Hybrid Cloud Container Services

Try & Buy package “Smart”

When to use?		Gain fast first experiences in Kubernetes/Container landscapes without long commitment with a fixed 3 months contract duration (if not extended proactively).
What is included?		<ul style="list-style-type: none"> ▪ 10 Virtual Machines ▪ Private Registry
What support is provided?		<ul style="list-style-type: none"> ▪ Operating time: Monday – Sunday, 24 x 7 hrs. ▪ Attended operating time: Monday – Friday; 07:00 – 19:00 respectively
How much does it cost?		<ul style="list-style-type: none"> ▪ Onetime: 0,- € ▪ Monthly : 18.900,- € ▪ 3 months fixed contract

Try & Buy package “Development Environment”

When to use?		Development-, staging and production landscape (for up to 3 applications)
What is included?		▪ 20 Virtual Machines
		▪ Private Registry
		▪ Consulting: 3 days
What support is provided?		▪ Operating time: Monday – Sunday, 24 x 7 hrs.
		▪ Attended operating time: Monday – Friday; 07:00 – 19:00 respectively
How much does it cost?		<ul style="list-style-type: none"> ▪ Onetime: 6.490,- € ▪ Monthly : 19.900,- € ▪ Termination: 3 months

Try & Buy package “Productive Environment”

When to use?		Development-, staging and production landscape (for up to 3 applications)
What is included?		▪ 50 Virtual Machines
		▪ Private Registry
		▪ Logging & Monitoring Package
		▪ Consulting: 10 days
What support is provided?		▪ Operating time: Monday – Sunday, 24 x 7 hrs.
		▪ Attended operating time: Monday – Sunday 00:00 – 24:00 respectively
How much does it cost?		<ul style="list-style-type: none"> ▪ Onetime: 11.590,- € ▪ Monthly: 26.690,- € ▪ Termination: 3 months

Contact

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